#3   O4CO

OIPE

RAW SEQUENCE LISTING   DATE: 02/08/2001
PATENT APPLICATION: US/09/769,878 TIME: 12:15:20

Input Set : A:\2976-B seq.txt
Output Set: N:\CRF3\02082001\I769878.raw

ENTERED

```
   3 <110> APPLICANT: Sims, John
   5 <120> TITLE OF INVENTION: FIL-1 THETA DNAs AND POLYPEPTIDES
   7 <130> FILE REFERENCE: 2976-B
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/769,878
  10 <141> CURRENT FILING DATE: 2001-01-25
  12 <150> PRIOR APPLICATION NUMBER: US 60/195,962
  13 <151> PRIOR FILING DATE: 2000-04-11
  15 <150> PRIOR APPLICATION NUMBER: US 60/178,389
  16 <151> PRIOR FILING DATE: 2000-01-27
  18 <160> NUMBER OF SEQ ID NOS: 21
  20 <170> SOFTWARE: PatentIn version 3.0
  22 <210> SEQ ID NO: 1
  23 <211> LENGTH: 339
  24 <212> TYPE: DNA
  25 <213> ORGANISM: Homo sapien
  27 <400> SEQUENCE: 1
  28 aagatctgca tacttcctaa cagaggcttg gcccgcacca aggtccccat tttcctgggg      60
  30 atccagggag ggagccgctg cctggcatgt gtggagacag aagaggggcc ttccctacag     120
  32 ctggaggatg tgaacattga ggaactgtac aaaggtggtg aagaggccac acgcttcacc     180
  34 ttcttccaga gcagctcagg ctccgccttc aggcttgagg ctgctgcctg gcctggctgg     240
  36 ttcctgtgtg gcccggcaga gccccagcag ccagtacagc tcaccaagga gagtgagccc     300
  38 tcagcccgta ccaagtttta ctttgaacag agctggtag                           339
  41 <210> SEQ ID NO: 2
  42 <211> LENGTH: 112
  43 <212> TYPE: PRT
  44 <213> ORGANISM: Homo sapiens
  46 <400> SEQUENCE: 2
  48 Lys Ile Cys Ile Leu Pro Asn Arg Gly Leu Ala Arg Thr Lys Val Pro
  49 1               5                   10                  15
  51 Ile Phe Leu Gly Ile Gln Gly Gly Ser Arg Cys Leu Ala Cys Val Glu
  52             20                  25                  30
  54 Thr Glu Glu Gly Pro Ser Leu Gln Leu Glu Asp Val Asn Ile Glu Glu
  55         35                  40                  45
  57 Leu Tyr Lys Gly Gly Glu Glu Ala Thr Arg Phe Thr Phe Phe Gln Ser
  58     50                  55                  60
  60 Ser Ser Gly Ser Ala Phe Arg Leu Glu Ala Ala Ala Trp Pro Gly Trp
  61 65                  70                  75                  80
  63 Phe Leu Cys Gly Pro Ala Glu Pro Gln Gln Pro Val Gln Leu Thr Lys
  64             85                  90                  95
  66 Glu Ser Glu Pro Ser Ala Arg Thr Lys Phe Tyr Phe Glu Gln Ser Trp
  67             100                 105                 110
  69 <210> SEQ ID NO: 3
  70 <211> LENGTH: 459
  71 <212> TYPE: DNA
  72 <213> ORGANISM: Homo sapien
  74 <220> FEATURE:
  75 <221> NAME/KEY: CDS
```

RAW SEQUENCE LISTING   DATE: 02/08/2001
PATENT APPLICATION: US/09/769,878   TIME: 12:15:20

Input Set : A:\2976-B seq.txt
Output Set: N:\CRF3\02082001\I769878.raw

```
76  <222> LOCATION: (1)..(456)
78  <400> SEQUENCE: 3
79  atg tgt tcc ctc ccc atg gca aga tac tac ata att aaa tat gca gac      48
80  Met Cys Ser Leu Pro Met Ala Arg Tyr Tyr Ile Ile Lys Tyr Ala Asp
81  1               5                   10                  15
83  cag aag gct cta tac aca aga gat ggc cag ctg ctg gtg gga gat cct      96
84  Gln Lys Ala Leu Tyr Thr Arg Asp Gly Gln Leu Leu Val Gly Asp Pro
85              20                  25                  30
87  gtt gca gac aac tgc tgt gca gag aag atc tgc aca ctt cct aac aga      144
88  Val Ala Asp Asn Cys Cys Ala Glu Lys Ile Cys Thr Leu Pro Asn Arg
89          35                  40                  45
91  ggc ttg gac cgc acc aag gtc ccc att ttc ctg ggg atc cag gga ggg      192
92  Gly Leu Asp Arg Thr Lys Val Pro Ile Phe Leu Gly Ile Gln Gly Gly
93      50                  55                  60
95  agc cgc tgc ctg gca tgt gtg gag aca gaa gag ggg cct tcc cta cag      240
96  Ser Arg Cys Leu Ala Cys Val Glu Thr Glu Glu Gly Pro Ser Leu Gln
97  65                  70                  75                  80
99  ctg gag gat gtg aac att gag gaa ctg tac aaa ggt ggt gaa gag gcc      288
100 Leu Glu Asp Val Asn Ile Glu Glu Leu Tyr Lys Gly Gly Glu Glu Ala
101             85                  90                  95
103 aca cgc ttc acc ttc ttc cag agc agc tca ggc tcc gcc ttc agg ctt      336
104 Thr Arg Phe Thr Phe Phe Gln Ser Ser Ser Gly Ser Ala Phe Arg Leu
105             100                 105                 110
107 gag gcc gct gcc tgg cct ggc tgg ttc ctg tgt ggc ccg gca gag ccc      384
108 Glu Ala Ala Ala Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala Glu Pro
109         115                 120                 125
111 cag cag cca gta cag ctc act aag gag agt gag ccc tca gcc cgt acc      432
112 Gln Gln Pro Val Gln Leu Thr Lys Glu Ser Glu Pro Ser Ala Arg Thr
113     130                 135                 140
115 aag ttt tac ttt gaa cag agc tgg tag                                  459
116 Lys Phe Tyr Phe Glu Gln Ser Trp
117 145                 150
120 <210> SEQ ID NO: 4
121 <211> LENGTH: 152
122 <212> TYPE: PRT
123 <213> ORGANISM: Homo sapien
125 <400> SEQUENCE: 4
127 Met Cys Ser Leu Pro Met Ala Arg Tyr Tyr Ile Ile Lys Tyr Ala Asp
128 1               5                   10                  15
131 Gln Lys Ala Leu Tyr Thr Arg Asp Gly Gln Leu Leu Val Gly Asp Pro
132             20                  25                  30
135 Val Ala Asp Asn Cys Cys Ala Glu Lys Ile Cys Thr Leu Pro Asn Arg
136         35                  40                  45
139 Gly Leu Asp Arg Thr Lys Val Pro Ile Phe Leu Gly Ile Gln Gly Gly
140     50                  55                  60
143 Ser Arg Cys Leu Ala Cys Val Glu Thr Glu Glu Gly Pro Ser Leu Gln
144 65                  70                  75                  80
147 Leu Glu Asp Val Asn Ile Glu Glu Leu Tyr Lys Gly Gly Glu Glu Ala
148             85                  90                  95
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/769,878

DATE: 02/08/2001
TIME: 12:15:20

Input Set : A:\2976-B seq.txt
Output Set: N:\CRF3\02082001\I769878.raw

```
151 Thr Arg Phe Thr Phe Phe Gln Ser Ser Ser Gly Ser Ala Phe Arg Leu
152              100             105             110
155 Glu Ala Ala Ala Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala Glu Pro
156          115             120             125
159 Gln Gln Pro Val Gln Leu Thr Lys Glu Ser Glu Pro Ser Ala Arg Thr
160      130             135             140
163 Lys Phe Tyr Phe Glu Gln Ser Trp
164 145             150
167 <210> SEQ ID NO: 5
168 <211> LENGTH: 21
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial
172 <220> FEATURE:
173 <223> OTHER INFORMATION: DNA primer
175 <400> SEQUENCE: 5
176 agaagatctg catacttcct a                                          21
179 <210> SEQ ID NO: 6
180 <211> LENGTH: 19
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial
184 <220> FEATURE:
185 <223> OTHER INFORMATION: DNA primer
187 <400> SEQUENCE: 6
188 tgagcaggat gagcttggt                                             19
191 <210> SEQ ID NO: 7
192 <211> LENGTH: 27
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial
196 <220> FEATURE:
197 <223> OTHER INFORMATION: DNA primer
199 <400> SEQUENCE: 7
200 ccatcctaat acgactcact atagggc                                    27
203 <210> SEQ ID NO: 8
204 <211> LENGTH: 18
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial
208 <220> FEATURE:
209 <223> OTHER INFORMATION: DNA primer
211 <400> SEQUENCE: 8
212 ctccagctgt agggaagg                                              18
215 <210> SEQ ID NO: 9
216 <211> LENGTH: 23
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial
220 <220> FEATURE:
221 <223> OTHER INFORMATION: DNA primer
223 <400> SEQUENCE: 9
224 actcactata gggctcgagc ggc                                        23
227 <210> SEQ ID NO: 10
```

RAW SEQUENCE LISTING   DATE: 02/08/2001
PATENT APPLICATION: US/09/769,878   TIME: 12:15:20

     Input Set : A:\2976-B seq.txt
     Output Set: N:\CRF3\02082001\I769878.raw

```
228 <211> LENGTH: 20
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial
232 <220> FEATURE:
233 <223> OTHER INFORMATION: DNA primer
235 <400> SEQUENCE: 10
236 tcttctgtct ccacacatgc                                              20
239 <210> SEQ ID NO: 11
240 <211> LENGTH: 20
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial
244 <220> FEATURE:
245 <223> OTHER INFORMATION: DNA primer
247 <400> SEQUENCE: 11
248 caaggctaaa acgcagtttc                                              20
251 <210> SEQ ID NO: 12
252 <211> LENGTH: 20
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial
256 <220> FEATURE:
257 <223> OTHER INFORMATION: DNA primer
259 <400> SEQUENCE: 12
260 caggaaacag ctatgaccat                                              20
263 <210> SEQ ID NO: 13
264 <211> LENGTH: 22
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial
268 <220> FEATURE:
269 <223> OTHER INFORMATION: DNA primer
271 <400> SEQUENCE: 13
272 ctatttaggt gacactatag aa                                           22
275 <210> SEQ ID NO: 14
276 <211> LENGTH: 538
277 <212> TYPE: DNA
278 <213> ORGANISM: Mus musculus
280 <220> FEATURE:
281 <221> NAME/KEY: CDS
282 <222> LOCATION: (29)..(487)
284 <400> SEQUENCE: 14
285 tgaagaccag acactcccaa ctgcagga atg tgc tcc ctt ccc atg gca aga     52
286                                 Met Cys Ser Leu Pro Met Ala Arg
287                                  1               5
289 tac tac ata atc aag gat gca cat caa aag gct ttg tac aca cgg aat   100
290 Tyr Tyr Ile Ile Lys Asp Ala His Gln Lys Ala Leu Tyr Thr Arg Asn
291     10              15                  20
293 ggc cag ctc ctg ctg gga gac cct gat tca gac aat tat agt cca gag  148
294 Gly Gln Leu Leu Leu Gly Asp Pro Asp Ser Asp Asn Tyr Ser Pro Glu
295 25              30                  35                  40
297 aag gtc tgt atc ctt cct aac cga ggc cta gac cgc tcc aag gtc ccc  196
```

RAW SEQUENCE LISTING   DATE: 02/08/2001
PATENT APPLICATION: US/09/769,878 TIME: 12:15:20

Input Set : A:\2976-B seq.txt
Output Set: N:\CRF3\02082001\I769878.raw

```
298 Lys Val Cys Ile Leu Pro Asn Arg Gly Leu Asp Arg Ser Lys Val Pro
299             45              50              55
301 atc ttc ctg ggg atg cag gga gga agt tgc tgc ctg gcg tgt gta aag      244
302 Ile Phe Leu Gly Met Gln Gly Gly Ser Cys Cys Leu Ala Cys Val Lys
303         60              65              70      `
305 aca aga gag gga cct ctc ctg cag ctg gag gat gtg aac atc gag gac      292
306 Thr Arg Glu Gly Pro Leu Leu Gln Leu Glu Asp Val Asn Ile Glu Asp
307     75              80              85
309 cta tac aag gga ggt gaa caa acc acc cgt ttc acc ttt ttc cag aga      340
310 Leu Tyr Lys Gly Gly Glu Gln Thr Thr Arg Phe Thr Phe Phe Gln Arg
311     90              95              100
313 agc ttg gga tct gcc ttc agg ctt gag gct gct gcc tgc cct ggc tgg      388
314 Ser Leu Gly Ser Ala Phe Arg Leu Glu Ala Ala Ala Cys Pro Gly Trp
315 105             110             115             120
317 ttt ctc tgt ggc cca gct gag ccc cag cag cca gtg cag ctc acc aaa      436
318 Phe Leu Cys Gly Pro Ala Glu Pro Gln Gln Pro Val Gln Leu Thr Lys
319             125             130             135
321 gag agt gaa ccc tcc acc cat act gaa ttc tac ttt gag atg agt cgg      484
322 Glu Ser Glu Pro Ser Thr His Thr Glu Phe Tyr Phe Glu Met Ser Arg
323         140             145             150
325 taa ggagacataa ggctgggggcc tcgtctagtg cccccagtct gagatcttct t        538
328 <210> SEQ ID NO: 15
329 <211> LENGTH: 152
330 <212> TYPE: PRT
331 <213> ORGANISM: Mus musculus
333 <400> SEQUENCE: 15
335 Met Cys Ser Leu Pro Met Ala Arg Tyr Tyr Ile Ile Lys Asp Ala His
336 1             5               10              15
339 Gln Lys Ala Leu Tyr Thr Arg Asn Gly Gln Leu Leu Leu Gly Asp Pro
340         20              25              30
343 Asp Ser Asp Asn Tyr Ser Pro Glu Lys Val Cys Ile Leu Pro Asn Arg
344         35              40              45
347 Gly Leu Asp Arg Ser Lys Val Pro Ile Phe Leu Gly Met Gln Gly Gly
348     50              55              60
351 Ser Cys Cys Leu Ala Cys Val Lys Thr Arg Glu Gly Pro Leu Leu Gln
352 65              70              75              80
355 Leu Glu Asp Val Asn Ile Glu Asp Leu Tyr Lys Gly Gly Glu Gln Thr
356             85              90              95
359 Thr Arg Phe Thr Phe Phe Gln Arg Ser Leu Gly Ser Ala Phe Arg Leu
360             100             105             110
363 Glu Ala Ala Ala Cys Pro Gly Trp Phe Leu Cys Gly Pro Ala Glu Pro
364         115             120             125
367 Gln Gln Pro Val Gln Leu Thr Lys Glu Ser Glu Pro Ser Thr His Thr
368     130             135             140
371 Glu Phe Tyr Phe Glu Met Ser Arg
372 145             150
375 <210> SEQ ID NO: 16
376 <211> LENGTH: 30
377 <212> TYPE: DNA
```

VERIFICATION SUMMARY   DATE: 02/08/2001
PATENT APPLICATION: US/09/769,878   TIME: 12:15:21

Input Set : A:\2976-B seq.txt
Output Set: N:\CRF3\02082001\I769878.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number